Claims

1. An optical fiber component comprising:

an optical element having a light incident end face on its one side and a light exit end face on its other side;

a pair of photonic crystal fibers having their individual one-side end faces optically connected to the two end faces of said optical element; and

a pair of single mode fibers having their individual one-side end faces optically connected to the other end faces of said pair of photonic crystal fibers,

said pair of photonic crystal fibers having a mode field diameter made larger than that of said pair of single mode fibers.

2. An optical fiber component comprising:

an optical element having a light incident end face on its one side and a light exit end face on its other side;

a pair of photonic crystal fibers having their individual one-side end faces optically connected to the two end faces of said optical element;

a pair of collimation lenses having their individual one-side faces optically connected to the other end faces of said pair of photonic crystal fibers; and

a pair of single mode fibers having their individual one-side end faces optically connected to the other end faces of said pair of collimation lenses,

said pair of photonic crystal fibers having a mode field diameter made larger than that of saidpair of single mode fibers;

saidpair of collimation lenses having a mode field diameter gradually enlarged from the single mode fibers to said photonic crystal fibers.

- 3. An optical fiber component as set forth in claim 1 or 2, wherein said optical element is made of an optical isolator, an optical filter, an optical switch or an optical variable attenuator, or a combination thereof.
- 4. An optical fiber component comprising:

a single mode fiber; and a photonic crystal fiber having an end face optically connected to an end face of said single mode fiber and having a mode field diameter larger than that of said single mode fiber,

the external diameter of said photonic crystal fiber being made substantially equal to a ferrule making an optical connector.

- 5. An optical fiber component comprising:
- a single mode fiber; a collimation lens having an end face optically connected to an end face of said single mode fiber and having a mode field diameter gradually enlarged; and
 - a photonic crystal fiber having an end face optically

connected to the other end face of said collimation lens and having a mode field diameter larger than that of said single mode fiber,

the external diameter of said photonic crystal fiber being made substantially equal to a ferrule making an optical connector.

- An optical fiber component as set forth in claim 2 or
 wherein said collimation lens is a graded index fiber.
- 7. An optical fiber component as set forth in claim 6, wherein said graded index fiber has an end face fused to the end face of said graded index fiber.
- 8. An optical fiber component as set forth in any claims 4 to 7, wherein a connector housing is attached to the leading end portion of said photonic crystal fiber.
- 9. An optical fiber component as set forth in any claims 1 to 8, wherein said photonic crystal fiber has a mode field diameter of at least 20 μm .